CLAIMS

What is claimed is:

- A non-woven protective garment comprising a composite barrier fabric consisting of several layers bonded to each other having enhanced reversible thermal properties wherein at least one layer contains finely divided phase change materials.
- 2. A non-woven protective garment according to claim 1, wherein at least one layer of the composite barrier fabric consists of an elastomeric material.
- 3. A non-woven protective garment according to claim 1, wherein the layer containing the finely divided phase change materials is an elastomeric material.
- 4. A non-woven protective garment according to claim 1, wherein the layer which contains the finely divided phase change material is arranged on the inside of the garment.
- 5. A non-woven protective garment according to claim 1, wherein the layer which contains the finely divided phase change material is bonded to the non-woven fabric substrate the composite barrier fabric consists of.
- 6. A non-woven protective garment according to claim 1, wherein the layer which contains the finely divided phase change material is bonded to the non-woven fabric substrate the composite barrier fabric consists of replacing a barrier film layer.
- 7. A non-woven protective garment according to claim 1, wherein a non-woven fabric substrate is arranged between an outside barrier film layer and an inside layer of an elastomeric material with incorporated phase change material.
- 8. A non-woven protective garment according to claim 1, wherein a non-woven fabric substrate is arranged between an outside barrier film layer and an inside layer of an elastomeric material with incorporated phase change material which replaces a barrier film layer.
- 9. A non-woven protective garment according to claim 1, wherein a non-woven fabric substrate is arranged between two barrier films and the elastomeric material with incorporated phase change material is bonded to the inner barrier film adjacent to the wearer's body.
- 10. A non-woven protective garment according to claim 1, wherein a barrier film is arranged between two non-woven fabric substrates and the elastomeric material with incorporated

- phase change material is bonded to the inner non-woven fabric substrate adjacent to the wearer's body.
- 11. A non-woven protective garment according to claim 1, wherein the barrier film which is adjacent to the wearer's body of a five-layer laminate is replaced by the elastomeric material with incorporated phase change material.
- 12. A non-woven protective garment according to claim 1, wherein two layers which contain the finely divided phase change material are arranged between two outer barrier film layers and an inner non-woven fabric substrate the composite barrier fabric consists of.
- 13. A non-woven protective garment according to claim 1, wherein the layer which contains the finely divided phase change material is bonded to a non-woven fabric substrate of the composite barrier fabric by lamination.
- 14. A non-woven protective garment according to claim 1, wherein the layer which contains the finely divided phase change material is bonded to a barrier film of the composite fabric substrate by lamination.
- 15. A non-woven protective garment according to claim 1, wherein the layer which contains the finely divided phase change material is bonded to a non-woven fabric substrate of the composite barrier fabric by coating.
- 16. A non-woven protective garment according to claim 1, wherein the layer which contains the finely divided phase change material is bonded to a non-woven fabric substrate and a barrier film of the composite barrier fabric by lamination.
- 17. A non-woven protective garment according to claim 1, wherein the phase change material is a crystalline alkyl hydrocarbon.
- 18. A non-woven protective garment according to claim 1, wherein the phase change material is a salt hydrate.
- 19. A non-woven protective garment according to claim 1, wherein the phase change materials have melting points in the range between 20 °C and 60 °C.
- 20. A non-woven protective garment according to claim 1, wherein the phase change materials have melting points in the range between 25 °C and 35 °C.
- 21. A non-woven protective garment according to claim 1, possessing a latent heat storage capacity between 40 kJ and 60 kJ.